

**Louisiana Department of Environmental Quality (LDEQ)
Office of Environmental Services**

STATEMENT OF BASIS

**DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2**

I. APPLICANT:

Company:
MeadWestvaco South Carolina, LLC
400 Crosby Road, DeRidder, LA 70634

Facility:
DeRidder Facility
400 Crosby Road, DeRidder, Beauregard Parish, Louisiana
Approximate UTM coordinates are 472.7 kilometers East and 3,410.2 kilometers North,
Zone 15

II. FACILITY AND CURRENT PERMIT STATUS:

MeadWestvaco Corporation proposes to renew and modify their Part 70 permit for the DeRidder facility, an existing tall oil refinery located near DeRidder, Louisiana. On January 30, 2002, Westvaco Corporation became a wholly-owned subsidiary of MeadWestvaco Corporation. The DeRidder facility operates under Permit No. 0320-00003-V1 issued January 12, 2006. An Administrative Amendment to Permit No. 0320-00003-V1, was issued on February 20, 2006.

Refinery Operations

Crude tall oil is shipped to the DeRidder plant in railcars or tank trucks and unloaded into storage tanks. The oil is pumped from storage tanks to feed tanks. Prior to the distillation process, water is removed from the crude tall oil. Distillation is completed in three columns.

Several of the cuts from the distillation column are pumped to storage as intermediates for further processing in other areas of the plant. These include tall oil fatty acid (TOFA), column 3 bottoms (C3B), and rosin. Rosin, TOFA, tall oil light ends, tall oil pitch, and C3B are also stored for sale as final products. Other cuts from the distillation columns are used

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

as fuel in the steam generating boilers at the utilities plant. These co-products include tall oil pitch and tall oil light ends.

Crushed gum or tall oil rosin is fed into a kettle where heat exchanger coils melt the rosin. Molten gum or tall oil rosin is sent to storage prior to being used in the resinate or hard resin production.

Process water generated in the Refinery area is collected and sent to the oil/water separator to remove the oil. Most of the water is recycled back to the refinery process and a small blowdown stream is sent to the treatment system. The process wastewater from the other process areas is collected and transported to the treatment system via trenches and hard piping. The blowdown from the oil/water separator and wastewater from other areas of the plant is first processed in the primary and secondary skimmer where oil is skimmed from the water surface. The wastewater from the skimmers is sent to the primary treatment and aeration basins where further treatment occurs. Treated water is discharged to the LPDES outfall.

The Refinery Area's Hotwell system is normally vented to the centralized Air Pollution Control System (APCS), which includes the Regenerative Thermal Oxidizer (RTO), Emission Point No. 1-03, and Enclosed Oxidizer Flare (EOF), Emission Point No. 2-03, as a back-up control device. The API Separator unit vents to atmosphere. Fugitive emissions from the refinery area include (1) emissions from the zinc charging system; (2) equipment leaks from the heat transfer system; and (3) product loading into containers/tank cars/railcars. Emissions are considered negligible due to the low vapor pressure of crude tall oil and its fractionated products. The refinery process operates under a vacuum within and near the distillation columns that prevent fugitive emissions.

The refinery expansion project, approved in the previous permit modification, is in progress. MeadWestvaco plans to complete the first and second phases by 2008.

Post Refinery Operations

The Post Refinery area produces flaked resins for the graphic arts industry, paper size for the paper industry and emulsifiers for the rubber industry. The finished products in the Post Refinery area are manufactured by batch operations.

The production of flaked resin is completed in a few basic steps. The rosin is prepared and polymerized to form long chemical chains in the reaction kettle. Produced resin is transferred from the reaction kettle onto a water-cooled belt where the resin is cooled and broken into flakes.

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

Paper size is produced in a two step process by fortifying rosin and reacting it with different bases. Emulsifiers are produced by disproportioning and saponifying rosin. Other materials produced in the Post Refinery Area include ink oil resin solutions, tall oil fatty acid ester using n-butanol, and resin production using gum rosin.

Three process kettles are located in the Post Refinery area. Each kettle vents to the Reaction Oil Tank where a common line vents to the centralized Air Pollution Control System (APCS) which includes a Regenerative Thermal Oxidizer (RTO) and an Enclosed Oxidizer/Flare (EOF) (back-up). Other emission points in the Post Refinery area include storage tanks and the heat transfer fluid heater. The dry raw materials' emissions are primarily captured by a dust collector unit and then vent to the APCS. The product flaking system vents to a Rotocclone wet scrubber unit. The Rotocclone wet scrubber captures and controls emissions from the flaker belt's weir box area (hot end). Dust emissions from product flaking and packaging vent to two dust collector (baghouse) control devices. Emissions from the supersacker, supersacker hopper, supersacker conveyor incline, and the conveyor belt junction area all vent to the South Baghouse (EP 3-88). The bagger, bagger hopper, and bagger conveyor incline vent to the North baghouse (EP 3A-88). A saponification vessel, which is primarily used to react rosin intermediates from the kettles with different bases, vents directly to the atmosphere.

Fugitive emissions from the post refinery area include the following (1) equipment leaks from the transfer of volatile material to the kettles, kettle operation, transfer of finished product to storage, and heat transfer fluid; (2) formaldehyde emissions from storage and handling of dry paraformaldehyde; (3) metal and metal oxide addition to batches; and (4) product loading into tank trucks/railcars.

St. John's Hard Resins Area

The St. John's Hard Resins area produces flaked resins using a batch process. The material produced is used primarily in the graphic arts industry. The kettles in the Hard Resins area are used to produce hard resins and rosin hydrocarbon hybrid resins.

For the rosin production process, rosin is prepared and polymerized in kettles to produce long chemical chains. Produced resin is transferred from the reaction kettle onto a water cooled belt where the resin is cooled and broken into flakes. Four process kettles are located in the Hard Resins area. The emissions from each kettle vent to the Reaction Oil vessel where a common line vents to the centralized APCS. The Hard Resin Bagger/Flaker dust collector routes fugitive emissions from the bagger, bagger hopper, supersacker, supersacker hopper, the hood at the end of the cooling belt, the hood on the conveyor incline, and the conveyor belt junction area to two baghouses aligned in series.

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

In addition to the St. John's Hard Resins process, MeadWestvaco also operates a rosin-hydrocarbon resin process in two of the four Hard Resin process kettles. Off-gases from the process are vented through a condenser/knock-out pot to a flare. Emissions from the flaker belt, bagging and supersacking operations are routed by a dust collection system to a baghouse prior to venting to the atmosphere. Other production that may occur in the Hard Resins Area include (1) ink oil resin solutions; (2) tall oil fatty acid (TOFA) esters using n-butanol; and (3) resins using gum rosin.

Fugitive emissions from the Hard Resins area include (1) equipment leaks from the transfer of volatile material to the kettles, kettle operation, transfer of finished product to storage, and from the heat transfer fluid system; (2) formaldehyde emissions from the storage and handling of dry paraformaldehyde; (3) metal and metal oxide addition to batches; (4) product loading into tank truck/railcar; and (5) equipment leaks from the hydrocarbon hard resin process and vent system.

St. John's Resinates Area

Solution resinates are produced in a batch process in the St. John's Resinates area. In the resinates process, reactants (including rosin, fatty acids, and maleic anhydride) are heated in one of reactors. Modifiers, copolymers, and solvent are added to the heated reactants. Finally, a metal oxide slurry is added to cause the reaction that produces the resinates. The process includes solvent recovery. Resinate is filtered and sent to storage tanks or railcars. The filter cake produced from the filtering process is drummed and burned in the hazardous waste boilers. Other production that may occur in the Resinates Area includes (1) ink oil resin solutions, (2) tall oil fatty acid (TOFA) esters using n-butanol, (3) resin using gum rosin, and (4) flaked resinates.

Fugitive emissions from the Resinates Area includes equipment leaks from the transfer of volatile materials, kettle operations, product filtering, and product transfers, and the handling of the filtering material from product filtering. Fugitive emissions from dry product handling and conveying are collected and routed to a baghouse. Solvent laden vapors from the kettles are routed to a condenser, chiller, and then vented to the vent collection header that is routed to the centralized APCS or is vented directly to the centralized APCS. Emissions from the components off the resinates system are routed through the knockout pot to the chiller and then to the centralized APCS or directly to the centralized APCS. Emissions from the resinate storage tanks are routed to the knock-out pot to the chiller and then to the centralized APCS or directly to the APCS.

An additional activity in the Resinates Area is washing the kettles with a tall oil product to remove residual resinate product from the kettle walls. This may be required prior the certain production processes and maintenance activities. Emissions are controlled by the centralized APCS.

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

Acrylics Plant

The Acrylics Plant produces acrylic-based emulsion resins and styrenic-acrylic-based hard resins. In the acrylic emulsion batch process, monomers are blended in pre-mix tanks and slowly added to water, catalysts, surfactants, and other additives in the reactor to polymerize the monomer blend. The acrylic polymer emulsion removed from the reactor is filtered and pumped to drums, tote bins, or storage tanks.

For the styrenic-acrylic hard resin process, the monomers are mixed in the monomer make-up tank and pumped to the reactor. The solvent, initiator, and chain transfer agent are mixed in the catalyst make-up tank. The contents of the make-up tanks are pumped continuously to the reactor. The product from the reactor is poured onto a cooling belt where it is flaked and fed into product surge bins. Spent chemicals and solvent are collected from the overhead stream of the flash tank.

The majority of emissions from the acrylics area are controlled by (1) routing to conservation vents, (2) routing to carbon canisters, (3) rerouting loading emissions back into the truck, (4) using sealless pumps, and (5) collecting emissions and routing to the centralized APCS. Additional uncontrolled VOC emissions occur from the three laboratory building vents and equipment leaks from valves, flanges, and/or agitators. Other fugitive emissions are from emulsion product handling and loading into containers/tank trucks, and hard resin handling and packaging. Dust emissions from hard resin product flaking/handling and packaging are routed to a dust collector unit.

Specialty Process Area

MeadWestvaco plans to discontinue production of acrylic-styrenic based products within the Acrylics Plant. Upon its disposition, MeadWestvaco intends to convert the exiting Acrylic Plant manufacturing equipment to the production of tall oil based derivatives (Oil field products, etc.).

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

Utility Operations

The hazardous fuel blending process and steam generation activities are included in the Utilities area.

MeadWestvaco maintains three identical steam generating boilers rated at 65 MMBTU/hr per boiler. The boilers vent to a common stack through a single electrostatic precipitator (dry ESP). The ESP is operated when firing any fuel other than natural gas. The boilers are permitted to fire several fuels. The boilers can fire Fuel Oil No. 6, Fuel Oil No. 2, hazardous waste fuel, tall oil fractions, refinery co-products, non-hazardous waste streams, and natural gas.

To maintain the necessary steam capacity for the plant/site, two of the three boilers are continuously operating.

Hazardous waste fuel (HWF) firing is limited to Boilers No. 2 and 3, and only one boiler is operated on HWF at one time. Each boiler combustion zone is equipped with an continuous oxygen analyzer. In addition, Boilers No. 2 and 3 share a continuous emissions monitoring system (CEMS) for continuously recording carbon monoxide (and oxygen) concentration in the off-gas of whichever boiler is firing hazardous waste fuel.

The boilers are capable of burning a number of fuels including three hazardous wastes that are blended with a nonhazardous component to produce a fuel that is burned for energy recovery. The hazardous waste components are: (1) a filter cake composed of approximately 45 wt.% resinate, 35% toluene, and 20% cellulosic filter aid; (2) a sparge oil waste (characteristic Hazardous waste based on ignitability) from the hydrocarbon hard resin process (off-spec HC-920/921); and (3) overhead by-product from the acrylics process (isopropyl alcohol, dipropylene glycol, and di-propyl-glycol-monomethyl ether).

The hazardous waste fuel is composed of 50% by weight minimum tall oil heads (light ends or lower molecular weight components) or fuel oil, and a maximum of 50% by weight hazardous waste fuels (filter cake, sparge oil / off-spec HC-920/921, acrylics overhead).

The flue gas from all boilers enters a common duct and flows to an electrostatic precipitator (with three fields in series) for particulate removal before exiting to the atmosphere through a 250 foot stack.

Two Part 70 permits addressing portions of the facility have already been issued. These include:

Permit Number	Units or Sources	Unit Name	Date Issued
0320-00003-V1	De Ridder Facility	De Ridder Facility	01/12/06

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

III. PROPOSED PERMIT / PROJECT INFORMATION:

Permit Application Submittal Information

MeadWestvaco South Carolina, LLC submitted an application and Emission Inventory Questionnaire (EIQ) dated November 8, 2006, requesting a modification; and an application and Emission Inventory Questionnaire (EIQ) dated December 29, 2006, requesting a Part 70 permit renewal. Additional information was submitted on May 23, 2007, and July 2, 2007.

Project description

MeadWestvaco South Carolina, LLC proposes the following changes:

- Increase the Startup/Shutdown emissions, Emission Point No. 1-03/2-03 SU/SD (Appendix B), to allow for additional downtime from the Hotwell, Emission Point No. 5-95, and additional increase in the number of down time events.
- Increase the 200 HP Hydroblaster Insignificant Activity to up to 500 HP Hydroblaster.
- Change the service of Tank T-215, Emission Point No. 12-92, to include gasoline for temporary emergency use and solvents (diesel, Isopar, etc.). The VOC emissions will increase slightly compared to the currently permitted value.
- Change the service of Tanks T-203, T-204, T-206; Emission Point Nos. 5-92, 6-92, 8-92, to include solvents (diesel, Isopar, etc.).
- Change the service of Tanks T-65, T-64, T-201, T-202, T-205, T-209, T-213, T-214, and T-62; Emission Point Nos. 3-80, 4-80, 3.92, 4-92, 7-92, 9-92, 10-92, 11-92, and 7-94, to include Fuel Oil Products. The VOC emissions will be less than currently permitted.
- Change the service of Tank ST-7, Emission Point No. 10-84, to include Linseed Oil. This new product has no VOC emissions.
- Change the Post Refinery Area Heat Transfer Fluid Storage Tank, Emission Point No. 27-04, to an Insignificant Activity. VOC emissions from this source are less than 0.01 tpy. The vapor pressure of the material meets the Insignificant Activity A3 (<0.5 psia) threshold.
- Add a package boiler to the Steam Generation Boilers CAP, Emission Point No. Steam Boiler Cap. This group source is capped through Condition No. 1 of the Part 70 Specific Conditions in Appendix A. The capped emissions will not change from previous permitted values.

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

Permitted Air Emissions

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	57.64	57.64	-
SO ₂	124.49	124.55	+0.06
NO _X	153.20	153.20	-
CO	90.64	90.66	+0.02
VOC	171.40	171.68	+0.28
Total Reduced Sulfur	4.67	4.69	+0.02

Toxic Air Pollutants	Before	After	Change
Acetaldehyde*	0.02	0.019	-0.001
Acrylic Acid *	0.02	0.018	-0.002
Ammonia	0.09	0.093	+0.003
Benzene *	0.05	0.048	-0.002
Biphenyl *	0.10	0.099	-0.001
Butanol *	0.38	0.375	-0.005
Carbon Disulfide	<0.01	<0.001	-
Carbonyl Sulfide	0.05	0.051	+0.001
Catechol*	<0.01	<0.001	-
Ethyl Acrylate *	0.08	0.081	+0.001
Ethylbenzene *	0.04	0.038	-0.002
Formaldehyde *	3.92	3.923	+0.003
Glycol ethers*	-	<0.001	-
Hydrogen Sulfide	1.04	1.044	+0.004
Maleic Anhydride *	0.49	0.485	-0.005
Methanol *	4.67	4.667	-0.003
Methyl Ethyl Ketone *	0.21	0.206	-0.004
Methyl Iodide	0.33	0.330	-
Methyl Methacrylate *	0.12	0.122	+0.002
n-Hexane *	0.19	0.193	+0.003
Naphthalene *	1.47	1.472	+0.002
Nickel	-	-	-

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

<u>Toxic Air Pollutants</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Phenol*	0.03	0.029	-0.001
Styrene *	0.37	0.367	-0.003
Sulfuric Acid	3.86	3.860	-
Toluene *	7.45	7.629	+0.179
2,2,4 Trimethylpentane*	<0.01	0.005	+0.005
Xylene *	0.26	0.260	-
Zinc	4.76	4.768	+0.008

*Included in Total VOC

Prevention of Significant Deterioration Applicability

Prevention of Significant Deterioration (PSD) does not apply. The new package boiler will become part of the existing Steam Boilers, Emission Point No. 1-75. The Steam Boilers currently consists of three multi-fuel boilers that can be used as necessary for steam generation using fuel limitations provided in the existing permit. The Package Boiler will be added to the capped emissions of the Steam Boilers, and there will be no change in emission limits or actual emissions from the Steam Boilers.

MACT requirements

This facility is a major source of toxic air pollutants (TAPs) for the entire facility as regulated pursuant to LAC 33:III.Chapter 51...Westvaco Corporation received Certificate of Compliance No. 92054 dated November 9, 1995. The Steam Generation Boilers, Emission Point 1-75, use an electrostatic precipitator (ESP) to control the emission of PM₁₀. The Regenerative Thermal Oxidizer (RTO) System, Emission Point No. 1-03, and the Enclosed Flare/ Combustor System, Emission Point No. 2-03, act as a central control device for certain emission points in the St. John's Resinates Area, St John's Hard Resins Area, and the Post Refinery Area. The Department of Environmental Quality approved a Leak Detection and Repair (LDAR) program for control of Biphenyl emissions as MACT on November 1, 1998. The LDAR program is based on the Hazardous Organic NESHAP Subpart H, 40 CFR 63.169 and 63.170.

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

Air Modeling Analysis

Dispersion Model(s) Used: N/A

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)

Impact on air quality from De Ridder Facility will be below the National Ambient Air Quality Standards (NAAQS) and the Louisiana Ambient Air Standards (AAS) beyond industrial property.

General Condition XVII Activities

The facility will comply with the applicable requirements of General Condition XVII of the Louisiana Air Emission Permit General Conditions in the Title V Permit. For a list of approved General Condition XVII Activities, refer to the General Condition XVII section of the draft Part 70 permit. These releases are small and will have an insignificant impact on air quality.

Insignificant Activities

All Insignificant Activities are authorized under LAC 33:III.501.B.5. For a list of approved Insignificant Activities, refer to the Emission Point List of the draft Part 70 permit.

IV. Permit Shields

A permit shield was not requested.

V. Periodic Monitoring

Per New Source Performance Standards, Subpart Dc, the facility monitors fuel oil sulfur content.

VI. Applicability and Exemptions of Selected Subject Items

Regulatory applicability, standards, monitoring, reporting and recordkeeping requirements are provided in the Facility Specific Requirements Section of the draft permit. The table below summarizes highlights of the regulatory applicability for each emission point.

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

Source ID No.:	Requirement	Applicability
Facility wide	Annual Emission Inventory [LAC 33:III.919] STATE-ONLY	The owner or operator of a facility in an attainment parish that emits or has the potential to emit 100 tons per year (TPY) or more of any contaminant [including volatile organic compounds (VOC)] for which a National Ambient Air Quality Standard (NAAQS) has been issued shall submit emission inventories to the Louisiana Department of Environmental Quality.
Facility wide	SO ₂ Emission Limitations [LAC 33:III.1503.C]	EXEMPT. Units emitting less than 250 tons per year may be exempt from the 2000 ppmv limitation.
Facility wide	Emission Standards for SO ₂ [LAC 33:III.1513]	EXEMPT – The facility emits less than 250 tons per year of SO ₂ .
Facility wide	Housekeeping [LAC 33:III.2113]	Best practical housekeeping and maintenance practices must be maintained at the highest possible standards to reduce the quantity of organic compound emissions. Emissions of organic compounds must be reduced whenever feasible.
1-75 Steam Generating Boilers	Control of Air Pollution from Smoke [LAC 33:III.1101.B]	Emission of smoke shall be controlled so that the shade or appearance of the emission is not darker than 20% average opacity.
1-75 Steam Generating Boilers	Emission from Fuel Burning Equipment [LAC 33:III.1313]	No person shall cause, suffer, allow, or permit the emission of particulate matter to the atmosphere from any fuel burning equipment in excess of 0.6 lbs per 10 ⁶ BTU of heat input.
1-75 Steam Generating Boilers	SO ₂ Emission Limitations [LAC 33:III.1503.C]	EXEMPT. Units emitting less than 250 tons per year may be exempt from the 2000 ppmv limitation.
1-75 Steam Generating Boilers	Continuous Emission Monitoring [LAC 33:III.1511]	DOES NOT APPLY. Continuous monitoring is not required for flares and sources emitting less than 100 tons per year of SO ₂ into the atmosphere.
1-75 Steam Generating Boilers	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] STATE ONLY	EXEMPT. Formaldehyde (I), Napthalene (II), Nickel (I), & Toluene (III) emissions come from the burning of Group I and II virgin fossil fuels and are exempt from this subchapter. Sulfuric Acid (III) and Zinc (III) emissions are Class III TAPs and therefore do not require MACT analysis.
1-03 Regenerative Thermal Oxidizer (RTO) System	Control of Air Pollution from Smoke [LAC 33:III.1101.B]	Emission of smoke shall be controlled so that the shade or appearance of the emission is not darker than 20% average opacity for not more than one six minute period in any 60 consecutive minutes.

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

Source ID No.:	Requirement	Applicability
1-03 Regenerative Thermal Oxidizer (RTO) System	Emission from Fuel Burning Equipment [LAC 33:III.1313]	No person shall cause suffer allow or permit the emission of particulate matter to the atmosphere from any fuel burning equipment in excess of 0.6 lbs. Per 10^6 BTU of heat input.
1-03 Regenerative Thermal Oxidizer (RTO) System	Emission Standards for Sulfur Dioxide [LAC 33:III.1503.C]	EXEMPT. Units emitting less than 250 tons per year may be exempt from the 2000 ppmv limitation.
1-03 Regenerative Thermal Oxidizer (RTO) System	Control of Emission of Organic Compounds – Waste Gas Disposal [LAC 33:III.2115]	Any waste gas stream containing VOC from any emission source shall be controlled by one or more of the applicable methods set forth in LAC 33:III.2115.A through G. This section shall apply to all waste streams located at facilities that have the potential to emit 100 TPY.
1-03 Regenerative Thermal Oxidizer (RTO) System	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] STATE ONLY	Control device is a Regenerative Thermal Oxidizer (RTO) with a VOC destruction efficiency of greater than 98%. Functions as the primary control device for vent streams from the Hard Resins Area, Resinates Area, Post Refinery Area, and Acrylic Area. Secondary control device for the vent streams from the Hydrocarbon Hard Resins Area.
2-03 Enclosed Flare/Combustor System	Control of Air Pollution from Smoke [LAC 33:III.1101.B]	Emission of smoke shall be controlled so that the shade or appearance of the emission is not darker than 20% average opacity for not more than one six minute period in any 60 consecutive minutes.
2-03 Enclosed Flare/Combustor System	Emission Standards for Sulfur Dioxide [LAC 33:III.1503.C]	EXEMPT. Units emitting less than 250 tons per year may be exempt from the 2000 ppmv limitation.
2-03 Enclosed Flare/Combustor System	Control of Emission of Organic Compounds – Waste Gas Disposal [LAC 33:III.2115]	Any waste gas stream containing VOC from any emission source shall be controlled by one or more of the applicable methods set forth in LAC 33:III.2115.A through G. This section shall apply to all waste streams located at facilities that have the potential to emit 100 TPY.
2-03 Enclosed Flare/Combustor System	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.5109.A] STATE ONLY	Control device is an enclosed flare/combustor with a VOC destruction efficiency of greater than 98%. Primary control device for the vent streams from the Hydrocarbon Hard Resins Area. Also functions as the secondary control device for vent streams from the Hard Resins Area, Resinates Area, Post Refinery Area, and Acrylic Area.
3-04 Refinery Heater No. 1A	Control of Air Pollution from Smoke [LAC 33:III.1101.B]	Emission of smoke shall be controlled so that the shade or appearance of the emission is not darker than 20% average opacity for not more than one six minute period in any 60 consecutive minutes.

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

Source ID No.:	Requirement	Applicability
3-04 Refinery Heater No. 1A	Emission from Fuel Burning Equipment [LAC 33:III.1313]	No person shall cause, suffer, allow, or permit the emission of particulate matter to the atmosphere from any fuel burning equipment in excess of 0.6 lbs per 10^6 BTU of heat input.
3-04 Refinery Heater No. 1A	SO ₂ Emission Limitations [LAC 33:III.1503.C]	EXEMPT. Units emitting less than 250 tons per year may be exempt from the 2000 ppmv limitation.
3-04 Refinery Heater No. 1A	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR Subpart Dc]	For distillate oil-fired affected facilities with heat input capacities between 10 and 100 million BTU/hr; compliance with the emission limits or fuel or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under 40 CFR 60.48c(f)(1), (2), (3), as applicable.
3-04 Refinery Heater No. 1A	Subpart Dc -Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.42c(d)]	No owner or operator of an affected facility that combust oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO ₂ in excess of 0.50 lb/million BTU) heat input; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur.
3-04 Refinery Heater No. 1A	Subpart Dc -Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.42c(d)]	For affected facilities subject to 40 CFR 60.42c(h)(1), 2), or (3) where the owner or operator seeks to demonstrate compliance with the SO ₂ standards based on fuel supplier certification, the performance test shall consist of the certification, the certification from the fuel supplier, as described under 40 CFR 60.48c(f)(1), (2), or (3), as applicable.
3-04 Refinery Heater No. 1A	Subpart Dc -Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.42c(i)]	The SO ₂ emission limits, fuel oil sulfur limits, and percent reduction requirements under Subpart Dc apply at all times, including periods of startup, shutdown, and malfunction.

VII. Streamlined Requirements

Unit or Plant Site	Programs Being Streamlined	Stream Applicability	Overall Most Stringent Program

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

N/A			
-----	--	--	--

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

VIII. Glossary

Best Available Control Technologies (BACT) - An emissions limitation (including a visible emission standard) based on the maximum degree of reduction for each pollutant subject to regulation under this part which would be emitted from any proposed major stationary source or major modification which the administrative authority, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes or available methods, systems, and techniques, including fuel cleaning or treatment or innovative fuel combustion techniques for control of such pollutant.

CAM - Compliance Assurance Monitoring rule – A federal air regulation under 40 CFR Part 64

Carbon Black - A black colloidal substance consisting wholly or principally of amorphous carbon and used to make pigments and ink.

Carbon Monoxide (CO) – (Carbon monoxide) a colorless, odorless gas produced by incomplete combustion of any carbonaceous (gasoline, natural gas, coal, oil, etc.) material.

Cooling Tower – A cooling system used in industry to cool hot water (by partial evaporation) before reusing it as a coolant.

Continuous Emission Monitoring System (CEMS) – The total combined equipment and systems required to continuously determine air contaminants and diluent gas concentrations and/or mass emission rate of a source effluent.

Cyclone – A control device that uses centrifugal force to separate particulate matter from the carrier gas stream.

Duct Burner – A device that combusts fuel and that is placed in the exhaust duct from another source (such as a stationary gas turbine, internal combustion engine, kiln, etc.) to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a steam generating unit.

Federally Enforceable Specific Condition - A federally enforceable specific condition written to limit the potential to Emit (PTE) of a source that is permanent, quantifiable, and practically enforceable. In order to meet these requirements, the draft permit containing the federally enforceable specific condition must be placed on public notice and include the following conditions:

- A clear statement of the operational limitation or condition which limits the source's potential to emit;
- Recordkeeping requirements related to the operational limitation or condition;

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

- A requirement that these records be made available for inspection by LDEQ personnel;
- A requirement to report for the previous calendar year.

Grandfathered Status- Those facilities that were under actual construction or operation as of June 19, 1969, the signature date of the original Clean Air Act. These facilities are not required to obtain a permit. Facilities that are subject to Part 70 (Title V) requirements lose grandfathered status and must apply for a permit.

Heat Recovery Steam Generator (HRSG) – A steam generator that recovers exhaust heat from a gas turbine, and provides economizing and steam generation surfaces.

Hydrogen Sulfide (H₂S) - A colorless inflammable gas having the characteristic odor of rotten eggs, and found in many mineral springs. It is produced by the action of acids on metallic sulfides, and is an important chemical reagent.

Maximum Achievable Control Technology (MACT) - The maximum degree of reduction in emissions of each air pollutant subject to LAC 33:III.Chapter 51 (including a prohibition on such emissions, where achievable) that the administrative authority, upon review of submitted MACT compliance plans and other relevant information and taking into consideration the cost of achieving such emission reduction, as well as any non-air-quality health and environmental impacts and energy requirements, determines is achievable through application of measures, processes, methods, systems, or techniques.

NESHAP - National Emission Standards for Hazardous Air Pollutants –Air emission standards for specific types of facilities, as outlined in 40 CFR Parts 61 through 63

Nitrogen Oxides (NO_x) - Compounds whose molecules consists of nitrogen and oxygen.

Nonattainment New Source Review (NNSR) - A New Source Review permitting program for major sources in geographic areas that do not meet the National Ambient Air Quality Standards (NAAQS) at 40 CFR Part 50. Nonattainment NSR is designed to ensure that emissions associated with new or modified sources will be regulated with the goal of improving ambient air quality.

NSPS - New Source Performance Standards – Air emission standards for specific types of facilities, as outlined in 40 CFR Part 60

Organic Compound - Any compound of carbon and another element. Examples: Methane (CH₄), Ethane (C₂H₆), Carbon Disulfide (CS₂)

Part 70 Operating Permit- Also referred to as a Title V permit, required for major sources as defined in 40 CFR 70 and LAC 33:III.507. Major sources include, but are not limited to, sources which have the potential to emit: ≥ 10 tons per year of any toxic air pollutant; ≥ 25 tons of total

DeRidder Facility
MeadWestvaco South Carolina, LLC
DeRidder, Beauregard Parish, Louisiana
Agency Interest Number: 1514
Activity Number: PER20070001
Draft Permit No. 0320-00003-V2

toxic air pollutants; and ≥ 100 tons per year of regulated pollutants (unless regulated solely under 112(r) of the Clean Air Act) (25 tons per year for sources in non-attainment parishes).

PM₁₀ - Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers as measured by the method in Title 40, Code of Federal Regulations, Part 50, Appendix J.

Potential to Emit (PTE) - The maximum capacity of a stationary source to emit any air pollutant under its physical and operational design.

Prevention of Significant Deterioration (PSD) – A New Source Review permitting program for major sources in geographic areas that meet the National Ambient Air Quality Standards (NAAQS) at 40 CFR Part 50. PSD requirements are designed to ensure that the air quality in attainment areas will not degrade.

Selective Catlaytic Reduction (SCR) – A noncombustion control technology that destroys NO_X by injecting a reducing agent (e.g., ammonia) into the flue gas that, in the presence of a catalyst (e.g., vanadium, titanium, or zeolite), converts NO_X into molecular nitrogen and water.

Sulfur Dioxide (SO₂) – An oxide of sulfur.

TAP - Toxic Air Pollutant (LDEQ acronym for air pollutants regulated under LAC 33 Part III, Chapter 51, Tables 1 through 3).

Title V permit – See Part 70 Operating Permit.

“Top Down” approach – An approach which requires use of the most stringent control technology found to be technically feasible and appropriate based on environmental, energy, economic, and cost impacts.

Turbine – A rotary engine in which the kinetic energy of a moving fluid is converted into mechanical energy by causing a bladed rotor to rotate.

Volatile Organic Compound (VOC) - Any organic compound which participates in atmospheric photochemical reactions; that is, any organic compound other than those which the administrator of the U.S. Environmental Protection Agency designates as having negligible photochemical reactivity.

Worksheet for Technical Review of Working Draft of Proposed Permit

Company Name:	MeadWestvaco South Carolina	AI #:	1514	TEMPO Activity No:	PER20070001
Facility Name:	DeRidder Facility	Remarks Submitted by:	Vicente J. Martinez		
Permit Writer:	Corbet Mathis	Permit Writer Email address:	Corbet.mathis@a.gov		

Instructions

Permit Reference – Indicate specific portion(s) of the permit to which the remark relates (i.e. “Specific Condition 120”, or “Section II Air Permits Briefing Sheet”, etc.).

Remarks – Explain the basis for each remark. Provide regulatory citations where possible. If the remark is made due to an error or omission in the permit application this must be noted and the revised information **must be submitted**. Revised information may be submitted separately from this worksheet. Please be aware that revised information must be submitted in writing and certified by the Responsible Official, and if necessary, by a Professional Engineer licensed in Louisiana. *Please Note:* New or additional equipment, processes or operating conditions not addressed in the original permit application will be addressed on a case-by-case basis. The Department reserves the right to address such changes in a separate permit action.

DEQ Response – DO NOT COMPLETE THIS SECTION. This section will be completed by Air Permits Division of DEQ, included in the proposed permit package and made available for public review during any required public comment period.

- Additional rows may be added as necessary.
- Completed Form shall be emailed to the Permit writer in MS Word compatible format within the deadline specified in the email notification.

Permit Reference	Remarks	Air Permits Division Response (for official use only)
Statement of basis	Process description are outdated from the recent ones submitted in the last two (2004 & 2006) submittal which include new controls and expansion descriptions. Need to add a description for Oil Field Chemical processing for the legacy acrylics area. See attachment 1 for the OFC process description after the Acrylics process description.	Changes made
III. Project Description	Please update changes see attachment 2	Changes made
Air permit briefing	Same remark as Statement of basis.	Changes made
Air permit briefing sheet page 6	Please update changes see attachment 2	Most of the changes made. There was some discrepancies with the application and suggested changes
(changes).		
Table 1.	EQT16 add (1) to 40 CFR 64. (CAM)	CAM was inadvertently left out. Added it
Table 1.	EQT53 add (1) to 40 CFR 64. (CAM)	CAM was inadvertently left out. Added it
Table 1.	EQT70 add (1) to 40 CFR 64. (CAM)	CAM was inadvertently left out. Added it

Table 1.	EQT137 add (1) to 40 CFR 64. (CAM)	CAM was inadvertently left out. Added it
Emission rates for Criteria Pollutants (pg 1-8)	EIQs were submitted with three decimal places the current list truncates to two decimal places, concern that this may lower slightly our existing limits which could reduce or limit us slightly.	CAM was inadvertently left out. Added it Decimal policy only requires two decimal points.
Appendix E, EP 3-80, Contents	Add: Fuel Oil Products, (F.O.P)	Change made.
Appendix E, EP 4-80, Contents	Add: F.O.P	Change made.
Appendix E, EP 3-92, Contents	Add: Glycol Ethers, F.O.P	Change made.
Appendix E, EP 4-92, Contents	Add: Glycol Ethers, F.O.P	Change made.
Appendix E, EP 5-92, Contents	Add: Solvents (diesel, Isopar, ...)	Change made.
Appendix E, EP 6-92, Contents	Add: Solvents (diesel, Isopar, ...)	Change made.
Appendix E, EP 7-92, Contents	Missing : Styrene; Add: F.O.P	Change made.
Appendix E, EP 8-92, Contents	Add: Solvents (diesel, Isopar, ...)	Change made.
Appendix E, EP 9-92, Contents	Add: Solvents (diesel, Isopar, ...)	Change made.
Appendix E, EP 10-92, Contents	Missing : Acrylic acid; Add: F.O.P	Change made.
Appendix E, EP 11-92, Contents	Add: F.O.P	Change made.
Appendix E, EP 12-92, Contents	Add: Solvents (diesel, Isopar, ...)	Change made.
Appendix E, EP 7-94, Contents	Add: F.O.P	Change made.
Appendix E, EP 1-95	Out of service (O.O.S.)	Change made.
Appendix E, EP 2-95	Out of service (O.O.S.)	Change made.
Appendix E, EP 3-95	Out of service (O.O.S.)	Change made.
Appendix E, EP 4-95	Out of service (O.O.S.)	Change made.
Appendix E, EP V-8	Out of service (O.O.S.)	Change made.
Appendix E, EP V-9	Out of service (O.O.S.)	Change made.
Specific Requirements EQT016	Add: [LAC 33.III:2] 15.k] See application Table 3	Added requirement.
Specific Requirements EQT067	In the TAP Compliance Certification, MeadWestvaco included sources that could potentially emit TAPs and listed the sources' emissions control devices and other general information such as pressure relief vents, nitrogen blanketing, submerge filling, etc. This general information was only included for informational purposes, it was not intended to be considered necessary for	It was noted as MACT in the previous permits. Keep as is.

	TAP controls. No emissions control credit were taken for these activities such as pressure relief vents, nitrogen blanketing, submerge filling, etc	
Specific Requirements EQT075	MACT determination was not determined to be a N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT120	MACT determination was not determined to be a N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT020	MACT determination was not determined to be a bottom fill/submerged fill system and N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT026	MACT determination was not determined to be a bottom fill/submerged fill system and N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT032	MACT determination was not determined to be a N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT047	MACT determination was not determined to be a N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT050	MACT determination was not determined to be a N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT055	MACT determination was not determined to be a bottom fill/submerged fill system. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT072	MACT determination was not determined to be a N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT101	MACT determination was not determined to be a N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT106	MACT determination was not determined to be a bottom fill/submerged fill system and N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.

Specific Requirements EQT108	MACT determination was not determined to be a bottom fill/submerged fill system. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT117	MACT determination was not determined to be a bottom fill/submerged fill system and N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT130	MACT determination was not determined to be a bottom fill/submerged fill system. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT136	MACT determination was not determined to be a bottom fill/submerged fill system. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT142	MACT determination was not determined to be a bottom fill/submerged fill system and N2 blanket equipped on the Tank. Credit was not taken for these systems and only noted in the permit. No controls were determined as MACT.	It was noted as MACT in the previous permits. Keep as is.
Specific Requirements EQT033		Requirements not applicable. Removed.
Specific Requirements EQT035	Add: [LAC 33:III.1513]	No sulfur emissions. Addition not needed.
Specific Requirements EQT038	Add: Oil Water Separator [LAC 33:III.2109.D] [LAC 33:III.2115.k.4]	Added requirements.
Specific Requirements EQT043	Add: Cooling Tower [LAC 33:III.2115.k.4]	Added requirement.
Specific Requirements EQT060	Add: Tank RS-20 [LAC 33:III.1513]	No sulfur emissions. Addition not needed.
Specific Requirements EQT065	Out of service (O.O.S.)	Change made.
Specific Requirements EQT074	70: Remove reporting requirements, they are not in our existing requirements, we want to continue to read as the existing requirement, i.e. maintain records only.	This is the standard policy for wet scrubbers. Reporting requirements are required.
Specific Requirements EQT104	3-90 T-68 Post Refinery Maleic Tank add same requirements as EQT074	Added requirements.
Specific Requirements EQT091	Out of service (O.O.S.)	Change made.

Specific Requirements EQT1094	Add: 20 % opacity [LAC 33:III.1101.B]	Already in requirements.
Specific Requirements EQT107	Add: Recordkeeping [40 CFR 60.116b]	Does not apply.
Specific Requirements EQT108	Out of service (O.O.S.)	Change made.
Specific Requirements EQT124	Out of service (O.O.S.)	Change made.
Specific Requirements EQT127	161: emissions routed to APCS	Change made.
Specific Requirements EQT131	Add: 5-95 Refinery Hotwell Tank [LAC 33:III.1513]	Added requirement
Specific Requirements EQT143	Remove: 7-95 Refinery Hotwell Tank [LAC 33:III.1513] Process vessel vents to EP 5-95	Added requirement
Specific Requirements EQT133	Add: 6-75 CTO T-6 [LAC 33:III.1513]	Added requirement.
Specific Requirements EQT???	Add: 6-95 F-Tank Condenser [LAC 33:III.1513]	Individual tanks are permitted. Note was added that they are controlled by the condenser.
Specific Requirements EQT144	Add: 20 % opacity [LAC 33:III.1101.B]	This is a flare and should have the 1105 citation. Changed EQT 70 to the 1105 citation.
Specific Requirements EQT158	Add: F-1 [LAC 33:III.1513]	Added requirement.
Specific Requirements EQT159	Add: F-2 [LAC 33:III.1513]	Added requirement.
Specific Requirements EQT160	Add: F-3 [LAC 33:III.1513]	Added requirement.
Specific Requirements EQT161	Add: F-4 [LAC 33:III.1513]	Added requirement.
Specific Requirements EQT162	Add: F-6 [LAC 33:III.1513]	Added requirement.
Specific Requirements EQT163	Add: CFZ Tank [LAC 33:III.1513]	Added requirement.

EQT155	Add: DTA [LAC 33:III.2103] [LAC 33:III.2115.J.1]	Added requirement.
Specific Requirements EQT156		
Specific Requirements EQT157	Add: DTB [LAC 33:III.2103] [LAC 33:III.2115.J.1]	Added requirement.
Specific Requirements GRP014	272: add by 1 st of July or as deem necessary by LDEQ 312: add by 31 st of March or as deem necessary by LDEQ 321-342 – Facility was de-register, and no longer subject to 40 CFR 68 Subchapter G.	Part 68 removed from the requirements. The reporting dates are set by regulation.
Specific Requirements EQ1085	Amend: 82: Opacity <=20 percent, except during a malfunction maximum of 1 hour, Remove: 87: (10 microns or less)	Not allowed by regulation.
Specific Requirements EQT090	Remove: 94: (10 microns or less)	Change made.
Specific Requirements EQ1092	Amend: 97: Opacity <=20 percent, except during a malfunction maximum of 1 hour,	Not allowed by regulation.
Specific Requirements EQT103	Amend: 118: Opacity <=20 percent, except during a malfunction maximum of 1 hour, Remove: 123: (10 microns or less)	Not allowed by regulation.
Specific Requirements EQT110	Amend: 130: Opacity <=20 percent, except during a malfunction maximum of 1 hour, Remove: 130: (10 microns or less)	Not allowed by regulation.
Specific Requirements EQT111	Amend: 136: Opacity <=20 percent, except during a malfunction maximum of 1 hour,	Not allowed by regulation.
Specific Requirements EQT125	Amend: 154: Opacity <=20 percent, except during a malfunction maximum of 1 hour, Remove: 159: (10 microns or less)	Not allowed by regulation.
Specific Requirements EQT132	Amend: 179: Opacity <=20 percent, except during a malfunction maximum of 1 hour,	Not allowed by regulation.

<p>Department of Environmental Quality Permits Division P.O. Box 4313 Baton Rouge, LA 70821-4313 (225) 219-3181</p>		 <p>LOUISIANA SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants</p>	
<p>Company Name MeadWestvaco South Carolina, LLC</p>		<p>Plant location and name (if any) DeRidder</p>	
<p>Source ID number 1-75</p>		<p>Date of Submittal December 2006</p>	
<p>Stack and Discharge Physical Characteristics <input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p>		<p>Approximate location of stack or vent (see instructions on how to determine location of area sources)</p>	
		<p>Horizontal Coordinate 472700</p>	<p>Vertical Coordinate 3410200</p>
		<p>Horizontal Coordinate m E</p>	<p>Vertical Coordinate m N</p>
		<p>Percent of annual throughput of pollutants through the emission point</p>	
		<p>Dec-Feb</p>	<p>Mar-May</p>
		<p>25</p>	<p>25</p>
		<p>Jun-Aug</p>	<p>Sept-Nov</p>
		<p>25</p>	<p>25</p>
		<p>Normal operating time of this point</p>	<p>Normal operating time of this point</p>
		<p>hrs/day</p>	<p>hrs/day</p>
		<p>days/wk</p>	<p>days/wk</p>
		<p>wk/yr</p>	<p>wk/yr</p>
		<p>Operating rate (Max) or Tank Capacity See Appendix E</p>	
		<p>Normal Operating Rate See Appendix E</p>	

Type of Fuel Heat Input (MMBtu/hr)

a: See Appendix A

b: _____

c: _____

Steam Generation Boilers

Stack and Discharge Physical Characteristics Change	Type of Fuel	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft ²)	Stack gas exit temp (deg F)	Stack gas flow (cfm)	Stack gas velocity (fps)	Date of construction / modification	Operating rate (Max) or Tank Capacity See Appendix E
yes <input checked="" type="checkbox"/> no	See Appendix A	250.0	14.000	500	134,300	47	Before 1975	m E
FUEL	Operating Characteristics	Dec-Feb	Mar-May	Jun-Aug	Sept-Nov	hrs/day	days/wk	wk/yr
		25	25	25	25	24	7	52

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Average (lbs/hr)	Maximum (lbs/hr)	Annual (ton/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM-10)	011	75	***	36,978	***	3	NA	
Sulfur dioxide (SO2)	000	0	***	145,710	***	3	NA	
Nitrogen oxides (NOx)	000	0	***	24,327	***	3	NA	
Carbon monoxide	000	0	***	20,540	***	3	NA	
Total VOC (incl. those listed below)	000	0	***	1,210	***	3	NA	
Benzene	000	0	***	<0.001	***	3	NA	
Ethyl benzene	000	0	***	0.001	***	3	NA	
Hexane, n-	000	0	***	<0.001	***	4	NA	
Naphthalene	000	0	***	0.032	***	3	NA	
Styrene	000	0	***	0.088	***	3	NA	
Sulfuric acid	000	0	***	3,200	***	3	NA	
Toluene	000	0	***	0.193	***	3	NA	
Xylene (mixed isomers)	000	0	***	0.036	***	3	NA	

Note 1: Type of fuel used and heat input is shown in calculation (Appendix E).

Note 2: 1-75 emission rates represent the federally enforceable proposed maximum annual emission rates (caps) for PM-10, SO2, and NOx based on previous permit. No change is proposed within this application. This source emissions are part of a Steam Boiler Cap on TPY emissions.

Department of Environmental Quality
 Permits Division
 P.O. Box 4313
 Baton Rouge, LA 70821-4313
 (225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants



Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder		Date of Submittal December 2006	
Source ID number 1-75	Descriptive name of the equipment served by this stack or vent Steam Generation Boilers		Approximate location of stack or vent (see instructions on how to determine location of area sources) Horizontal Coordinate m E Vertical Coordinate m N	
Stack and Discharge Physical Characteristics Change yes <input checked="" type="checkbox"/> no	Height of stack above grade (ft) 250.0	Diameter (ft) or stack discharge area (ft ²) 14.000 ft	Stack gas exit temp (deg F) 500	Stack gas flow (CFM) 134,300
FUEL	Type of Fuel a: See Appendix A	Heat Input (MMBtu/hr) See Appendix A	Operating Characteristics Dec-Feb	Percent of annual throughput of pollutants through the emission point 25
	b:		Mar-May	Normal operating time of this point hrs/day Sept-Nov 25
	c:		Jun-Aug	hrs/day days/wk wklyr 24
				days/wk 7
				52

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Emission Rate	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Zinc compounds	011	75	***	1.840	***	3	3	NA	

Note 1: Type of fuel used and heat input is shown in calculation (Appendix E).
 Note 2: 1-75 emission rates represent the federally enforceable proposed maximum annual emission rates (caps) for PM-10, SO₂, and NO_x based on previous permit. No change is proposed within this application. This source emissions are part of a Steam Boiler Cap on TPF emissions.

Department of Environmental Quality
 Permits Division
 P.O. Box 4313
 Baton Rouge, LA 70821-4313
 (225) 219-3181

LOUISIANA
SINGLE POINT/AREA/VOLUME SOURCE
Emission Inventory Questionnaire (EIQ)
for Air Pollutants



Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder			Date of Submittal December 2006
Source ID number PBLR	Descriptive name of the equipment served by this stack or vent Package Boiler			Approximate location of stack or vent (see instructions on how to determine location of area sources)
Stack and Discharge Physical Characteristics Change <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Height of stack above grade (ft) 40	Diameter (ft) or stack discharge area (ft ²) 4 ft	Stack gas exit temp (deg F) 400	Horizontal Coordinate UTM Zone No. 15 Stack gas flow (CFM) 33110
FUEL	Type of Fuel Natural gas	Heat Input (MMBtu/hr) 1020	Operating Characteristics Dec-Feb 25	Vertical Coordinate Stack gas velocity (fps) 125
			Mar-May 25	Date of construction / modification 2005
			Jun-Aug 25	Operating rate (Max) or Tank Capacity 99.7 mmbtu/hr
			Sept-Nov 25	Normal operating time of this point hrs/day 24
				Normal Operating Rate wkyr 35 mmbtu/hr
				7 52

Air Pollutant Specific Information					
Pollutant	Control Equipment Code	Control Efficiency	Emission Rate	Emission Estimation Method	Add. Change, or Delete Code
		Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Concentration in gases exiting at stack
Particulate matter (PM-10)	000	0	***	0.740 ***	3 NA
Sulfur dioxide (SO ₂)	000	0	***	0.600 ***	3 NA
Carbon monoxide	000	0	***	7.370 ***	3 NA
Total VOC (incl. those listed below)	000	0	***	0.540 ***	3 NA
Nitrogen dioxide (NO ₂)	000	0	***	9.770 ***	3 NA

The package boiler annual emission rates are included in the Steam Boiler Cap.

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder		Date of Submittal December 2006
Source ID number Stream Boiler Cap	Descriptive name of the equipment served by this stack or vent Steam Generation Boiler		Approximate location of stack or vent (see instructions on how to determine location of area sources) Horizontal Coordinate 472700 m E Vertical Coordinate 3410200 m N
Stack and Discharge Physical Characteristics Change <u>X</u> yes <u> </u> no	Height of stack above grade (ft) 250	Diameter (ft) or stack discharge area (ft ²) 14 ft	Stack gas exit temp (deg F) 500
FUEL	Type of Fuel a: see Appendix A b: c:	Operating Characteristics Heat Input (MMBtu/hr) see appendix A	Percent of annual throughput of pollutants through the emission point Dec-Feb 25 Mar-May 25 Jun-Aug 25 Sept-Nov 25 Normal operating time of this point hrs/day 24 days/wk 7 Normal Operating Rate wkyr 52 See appendix E

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Emission Rate	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM-10)	099	75	9,850	***	42,160	3	3	NA	
Sulfur dioxide (SO ₂)	099	0	22,700	***	98,410	3	3	NA	
Nitrogen oxides (NOx)	099	0	24,357	***	105,680	5	5	NA	
Carbon monoxide	099	0	7,700	***	33,720	3	3	NA	
Total VOC (incl. those listed below)	099	99.9	1,050	***	4,610	3	3	NA	
Benzene	099	99.9	0.001	***	0.001	3	3	NA	
Ethyl benzene	099	99.9	0.001	***	0.002	3	3	NA	
Hexane, n-	099	99.9	0.001	***	0.001	3	3	NA	
Naphthalene	099	99.9	0.008	***	0.040	3	3	NA	
Styrene	099	99.9	0.022	**	0.095	3	3	NA	
Sulfuric acid	000	0	0.880	***	3,860	3	3	Add	
Toluene	099	99.9	0.087	***	0.380	3	3	NA	
Xylene (mixed isomers)	099	99.9	0.010	***	0.040	3	3	NA	

Note 1: Type of fuel used and heat input is shown in calculation (Appendix E). Note 2: 1-75 and PBLR emission rates represent the federally enforceable proposed maximum annual emission rates (caps) for PM-10, SO₂, and NOx based on previous permit. The cap is for the annual emissions.

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

	
Company Name MeadWestvaco South Carolina, LLC	
Source ID number Stream Boiler Cap	
Stack and Discharge Physical Characteristics Change X yes no	
FUEL a: b: c:	

Plant location and name (if any)		Date of Submittal	
		December 2006	
Descriptive name of the equipment served by this stack or vent		Approximate location of stack or vent (see instructions on how to determine location of area sources)	
Steam Generation Boiler		Horizontal Coordinate	472700
		Vertical Coordinate	3410200
		Stack gas velocity (fps)	Operating rate (Max) or Tank Capacity
		134300	m N
		47	before 1975
			See appendix E
Operating Characteristics Type of Fuel Heat Input (MMBtu/hr) see Appendix A		Percent of annual throughput of pollutants through the emission point Dec-Feb Mar-May Jun-Aug Sept-Nov 25 25 25 25 hrs/day days/wk wk/yr 24 7 52	
		Normal operating time of this point Normal Operating Rate See appendix E	

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate			Add, Change, or Delete Code	Concentration in gases exiting at stack
			Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)		
Zinc compounds	099	99.9	1,030	1,840	4,500	3	NA

Note 1: Type of fuel used and heat input is shown in calculation (Appendix E). Note 2: 1-75 and PBLR emission rates represent the federally enforceable proposed maximum annual emission rates (caps) for PM-10, SO₂, and NO_x based on previous permit. The cap is for the annual emissions.

Department of Environmental Quality
Permits Division
P.O. Box 43133
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants

Company Name MeadWestvaco South Carolina, LLC		Plant location and name (if any) DeRidder		Date of Submittal December 2006
Source ID number 12-92		Descriptive name of the equipment served by this stack or vent T-215, Isopropyl Alcohol Storage Tank, Acrylics		Approximate location of stack or vent (see instructions on how to determine location of area sources) Horizontal Coordinate 472700 m E Vertical Coordinate 3410200 m N
Stack and Discharge Physical Characteristics Change _____ yes <input checked="" type="checkbox"/> no		Diameter (ft) or stack discharge area (ft ²) 14	Stack gas exit temp (deg F) 10 ft	Stack gas flow (CFM) N/A
		Percent of annual throughput of pollutants through the emission point		Operating rate (Max) or Tank Capacity 8,230 Gallons
		Dec-Feb N/A	Mar-May 25	Normal operating time of this point hrs/day 24
		Jun-Aug 25	Sept-Nov 25	days/wk 7
				wk/yr 52

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Average (lbs/hr)	Maximum (lbs/hr)	Emission Rate	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC (incl. those listed below)	087,089	0	0.077	81,000	0.340	3	Change	
Benzene	000	0	0.001	0.730	0.003	3	Add	
Ethyl benzene	000	0	<0.001	0.081	<0.001	3	Add	
Hexane, n-	000	0	0.001	1.300	0.005	3	Add	
Toluene	000	0	0.001	1.000	0.004	3	Add	
Trimethylpentane, 2,2,4-	000	0	0.001	0.650	0.003	3	Add	
Xylene (mixed isomers)	000	0	<0.001	0.400	0.002	3	Add	

Note 1: Tank equipped with nitrogen blanket and conservation vent.

Note 2: Tank is bottom filled and vapor balanced to the tank truck.

Note 3: Maximum lb/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent. Note: the tank will have multi service Solvents (Isopar, diesel, ..) for Oil Field Products, or Gasoline only for emergency use (temporary)

MeadWestvaco South Carolina, LLC





LOUISIANA
SINGLE POINT/AREA/VOLUME SOURCE
Emission Inventory Questionnaire (EIQ)
for Air Pollutants

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

MeadWestvaco South Carolina, LLC

Company Name
MeadWestvaco South Carolina, LLC

Source ID number
10-84

Plant location and name (if any)
DerRidder

Descriptive name of the equipment served by this stack or vent
ST-7, Aromatic 150 Storage Tank | Hard Resins

Stack and Discharge Physical Characteristics Change	Height of stack above grade (ft)	Diameter (ft) or Stack discharge area (ft ²)	Stack gas exit temp (deg F)	Approximate location of stack or vent (see instructions on how to determine location of area sources)		
				UTM Zone No.	Horizontal Coordinate	Vertical Coordinate
	22	8.8 ft	N/A	15	3410200	m N

FUEL	Type of Fuel	Heat Input (MMBtu/hr)	Operating Characteristics	Percent of annual throughput of pollutants through the emission point			Normal operating time of this point	Normal Operating Rate
				Dec-Feb	Mar-May	Jun-Aug		
a: b: c:	N/A			25	25	25	hrs/day	wk/yr

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate			Add, Change, or Delete Code	Concentration in gases exiting at stack
			Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)		
Total VOC (incl. those listed below)	087,088	0	0.017	13,000	0.073	3	NA
Naphthalene	087,088	0	<0.001	0.340	0.002	3	NA

Note: Tank equipped with a conservation vent and nitrogen blanket and is bottom filled. Note The ST-7 tank emissions will be routed to process and will be vented thru the APCS (RTO EP 1-03 or ECO EP 2-03), as currently with ST-21, and will displace the equivalent or less emissions from ST-21 to ST-7. The tank service will change to toluene as is with ST-21.

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants

	
Company Name MeadWestvaco South Carolina, LLC	
Source ID number 10-92	
Stack and Discharge Physical Characteristics Change <input checked="" type="checkbox"/> yes <input type="checkbox"/> X <input type="checkbox"/> no	
FUEL a: N/A b: N/A c: N/A	

Plant location and name (if any)		Approximate location of stack or vent (see instructions on how to determine location of area sources)		Date of Submittal	
				December 2006	
T-213, Monomer Storage Tank, Acrylics		Stack gas exit temp (deg F)	Stack gas velocity (fps)	Vertical Coordinate	Operating rate (Max) or Tank Capacity
Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft ²)	N/A	N/A	N/A	8,226 Gallons
14	10 ft				
Percent of annual throughput of pollutants through the emission point		Normal operating time of this point		Normal operating rate	
Operating Characteristics		Dec-Feb	Mar-May	Jun-Aug	Sept-Nov
25		25	25	25	25
days/wk		hrs/day	wk/yr	days/wk	52
Air Pollutant Specific Information					
Pollutant	Control Equipment Code	Control Equipment Efficiency	Average (lbs/hr)	Maximum (lbs/hr)	Emission Estimation Method
Total VOC (incl. those listed below)	048, 088	95	<0.001	1.340	0.001
Acrylic acid	048, 088	95	<0.001	1.340	0.001

Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon).
 Note 2: Tank is bottom filled and vapor balanced to the tank truck.
 Note 3: Maximum lb/hr based on filling tank and 80% control because tank has bottom fill and a conservation pressure vent device. Note: the tank is in multi-service for Oil field Products, the emissions are less than permitted value.

MeadWestvaco South Carolina, LLC

Department of Environmental Quality
 Permits Division
 P.O. Box 4313
 Baton Rouge, LA 70821-4313
 (225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants



Company Name
 MeadWestvaco South Carolina, LLC

Plant location and name (if any)
 DeRidder

Date of Submittal
 December 2006

Source ID number
 11-92

Descriptive name of the equipment served by this stack or vent
 T-214, Downdraft DPM Storage Tank, Acrylics

Approximate location of stack or vent (see instructions on how to determine location of area sources)

Stack and Discharge Physical Characteristics
 Change _____ yes no

Height of stack above grade (ft)
 14

Diameter (ft) or stack discharge area (ft^2)
 10 ft

Stack gas exit temp (deg F)
 N/A

Stack gas velocity (CFM)
 N/A

Stack gas flow (fps)
 N/A

Horizontal Coordinate
 472700 m E

Vertical Coordinate
 3410200 m N

FUEL
 a: N/A
 b:
 c:

Type of Fuel
 Heat Input (MMBtu/hr)

Operating Characteristics
 Dec-Feb Mar-May Jun-Aug Sept-Nov

Percent of annual throughput of pollutants through the emission point
 25 25 25 25

Normal operating time of this point
 hrs/day days/yr

Normal Operating Rate
 52 N/A

Air Pollutant Specific Information

Pollutant
 Total VOC (incl. those listed below)

Control Equipment
 Code
 Average (lbs/hr)

Emission Rate
 Maximum (lbs/hr)

Emission Estimation Method
 Annual (tons/yr)

Add, Change,
 or Delete Code
 <0.001

Concentration in gases
 exiting at stack
 3 NA

- Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon).
 Note 2: Tank is bottom filled and vapor balanced to the tank truck.
 Note 3: Maximum lbs/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent. Note: the tank is in multi-service for Oil field Products, the emissions are less than permitted value.

MeadWestvaco South Carolina, LLC



LOUISIANA
SINGLE POINT/AREA/VOLUME SOURCE
Emission Inventory Questionnaire (EIQ)
for Air Pollutants

Department of Environmental Quality Permits Division P.O. Box 4313 Baton Rouge, LA 70821-4313 (225) 219-3181	Plant location and name (if any) DeRidder	Date of Submittal December 2006
Company Name MeadWestvaco South Carolina, LLC	Descriptive name of the equipment served by this stack or vent T-215, Isopropyl Alcohol Storage Tank, Acrylics	Approximate location of stack or vent (see instructions on how to determine location of area sources) Horizontal Coordinate 472700 m E Vertical Coordinate 3410200 m N

Source ID number 12-92	Stack and Discharge Physical Characteristics		Percent of annual throughput of pollutants through the emission point		Normal operating time of this point		Normal Operating Rate N/A
	Height of stack above grade (ft) 14	Diameter (ft) or stack discharge area (ft ²) 10 ft	Stack gas exit temp (deg F) N/A	Stack gas flow (CFM) N/A	Stack gas velocity (fps) N/A	Date of construction / modification 1993	
FUEL	a: NA	Type of Fuel	Heat input (MMBtu/hr)	Operating Characteristics	Dec-Feb	Mar-May	Sept-Nov
	b:				25	25	25
	c:					hrs/day	days/wk
						wk/yr	52

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate			Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
			Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)			
Total VOC (incl. those listed below)	087,089	0	0.077	81,000	0.340	3	Change	
Benzene	000	0	0.001	0.730	0.003	3	Add	
Ethyl benzene	000	0	<0.001	0.081	<0.001	3	Add	
Hexane, n-	000	0	0.001	1.300	0.005	3	Add	
Toluene	000	0	0.001	1,000	0.004	3	Add	
Trimethylpentane, 2,2,4-	000	0	0.001	0.650	0.003	3	Add	
Xylene (mixed isomers)	000	0	<0.001	0.400	0.002	3	Add	

Note 1: Tank equipped with nitrogen blanket and conservation vent.
Note 2: Tank is bottom filled and vapor balanced to the tank truck.
Note 3: Maximum lb/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent. Note: the tank will have multi service Solvents (Isopar, diesel, ..) for Oil Field Products, or Gasoline only for emergency use (temporary)
MeadWestvaco South Carolina, LLC



LOUISIANA
SINGLE POINT/AREA/VOLUME SOURCE
Emission Inventory Questionnaire (EIQ)
for Air Pollutants

Department of Environmental Quality Permits Division P.O. Box 43133 Baton Rouge, LA 70821-4313 (225) 219-3181	Plant location and name (if any) DeRidder	Date of Submittal December 2006
Source ID number 3-80	Descriptive name of the equipment served by this stack or vent T-65; Rosin/Rosin Products Storage Tank, Post Refinery	Approximate location of stack or vent (see instructions on how to determine location of area sources) Horizontal Coordinate 472700 m E Vertical Coordinate 3410200 m N

Stack and Discharge Physical Characteristics Change _____ yes X no	Height of stack above grade (ft) 32.2	Diameter (ft) or stack discharge area (ft^2) 13.5 ft	Stack gas exit temp (deg F) N/A	Stack gas velocity (fps) N/A	Date of construction / modification 1981/1994	Operating rate (Max) or Tank Capacity 33,000 Gallons	UTM Zone No. 15	Horizontal Coordinate	Vertical Coordinate	Operating rate (Max) or Tank Capacity			
							Dec-Feb	Mar-May	Jun-Aug	Sept-Nov	hrs/day	days/wk	wk/yr
FUEL	Type of Fuel a: N/A b: c:	Heat Input (MMBtu/hr)	Operating Characteristics	Percent of annual throughput of pollutants through the emission point Dec-Feb 25 25 25 25 24 7 52	25	25	25	24	7	52	N/A	Normal operating time of this point	Normal Operating Rate

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Sulfur dioxide (SO ₂)	087	0	0.008	1.000	0.033	3	NA	
Total Reduced Sulfur (TRS)	087	0	0.004	0.590	0.019	3	NA	
Total VOC (Incl. those listed below)	087	0	0.120	19.000	0.537	3	NA	
Acetaldehyde	087	0	<0.001	0.005	<0.001	3	NA	
Benzene	087	0	<0.001	<0.001	<0.001	3	NA	
Butanol, n-	087	0	0.001	0.130	0.004	3	NA	
Ethyl benzene	087	0	<0.001	0.001	<0.001	3	NA	
Hexane, n-	087	0	<0.001	0.003	<0.001	3	NA	
Hydrogen sulfide	087	0	0.001	0.180	0.006	3	NA	
Methanol	087	0	0.052	7.200	0.230	3	NA	
Methyl iodide	087	0	<0.001	0.130	0.001	3	NA	
Toluene	087	0	<0.001	0.002	<0.001	3	NA	

Note: This tank stores rosin, rosin products, tail oil fractions, and asphalt emulsion products. The product with the highest vapor pressure has been used to calculate VOC emissions. Speciated emissions are based on all products. Note: the tank is in multi-service for Oil Field Products, the emissions are less than permitted value.



LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE
Emission Inventory Questionnaire (EIQ)
for Air Pollutants

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder	Approximate location of stack or vent (see Instructions on how to determine location of area sources)							
Source ID number 3-92	Descriptive name of the equipment served by this stack or vent T-201, Monomer Storage Tank, Acrylics		Horizontal Coordinate 472700	Vertical Coordinate 3410200	Operating rate (Max) or Tank Capacity 8,230 Gallons		m E m N		
Stack and Discharge Physical Characteristics Change _____ yes <input checked="" type="checkbox"/> no	Height of stack above grade (ft) 14	Diameter (ft) or stack discharge area (ft ²) 10 ft	Stack gas exit temp (deg F) N/A	Stack gas flow (CFM) N/A	Stack gas velocity (ips) N/A	Date of construction / modification 1993	Normal operating time of this point wkly N/A		
FUEL	Type of Fuel a: N/A	Heat Input (MMBtu/hr) b: c:	Percent of annual throughput of pollutants through the emission point				Normal Operating Rate		
	Operating Characteristics		Dec-Feb	Mar-May	Jun-Aug	Sept-Nov	hrs/day	days/wk	wkly
			25	25	25	25	24	7	52
Air Pollutant Specific Information									
Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate			Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack	
Total VOC (incl. those listed below)	048,088	95	Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)				
Ethyl acrylate	048,088	95	0.006	4.040	0.027	3	NA	NA	
			4.040	0.027	3				

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate			Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
			Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)			
Total VOC (Incl. those listed below)	048, 088	95	0.006	4.040	0.027	3	NA	NA
Ethyl acrylate	048, 088	95	0.006	4.040	0.027	3	NA	NA

Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon).

Note 2: Tank is bottom fitted and vapor balanced to the tank truck.

Note 3: Maximum b/s/n based on maximum

Note 3: Maximum fill rate and a conservation pressure vent. Note: the tank is in multi-service for Oil field Products, the emissions are less than permitted value.

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants



Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder			Date of Submittal December 2006			
Source ID number 4-80	Descriptive name of the equipment served by this stack or vent T-64, Rosin/Rosin Products Storage Tank, Post Refinery			Approximate location of stack or vent (see instructions on how to determine location of area sources)			
Stack and Discharge Physical Characteristics Change <u> </u> yes <u> </u> no	Height of stack above grade (ft) 32.2	Diameter (ft) or stack discharge area (ft ²) 13.5 ft	Stack gas exit temp (deg F) N/A	UTM Zone No. 15 Horizontal Coordinate Vertical Coordinate	Stack gas flow (CFM) N/A	Stack gas velocity (fps) N/A	
FUEL	Type of Fuel a: N/A	Heat Input (MMBtu/hr) b: c:	Operating Characteristics Dec-Feb 25	Percent of annual throughput of pollutants through the emission point Mar-May 25	Mar-Aug 25	Sept-Nov 25	
					hrs/day 24	days/wk 7	wk/yr 52
					Normal operating time of this point		Normal Operating Rate N/A

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gasses exiting at stack
Sulfur dioxide (SO ₂)	000	0	0.022	2.800	0.096	3	NA	
Total Reduced Sulfur (TRS)	000	0	0.012	1.600	0.055	3	NA	
Total VOC (incl. those listed below)	000	0	0.390	120.000	3.200	3	NA	
Acetaldehyde	000	0	<0.001	0.003	<0.001	3	NA	
Butanol, n-	000	0	0.003	0.340	0.012	3	NA	
Carbonyl sulfide	000	0	0.001	0.065	0.003	3	NA	
Ethyl benzene	000	0	<0.001	<0.001	<0.001	3	NA	
Formaldehyde	000	0	<0.001	<0.001	<0.001	3	NA	
Hexane, n-	000	0	<0.001	<0.001	<0.001	3	NA	
Hydrogen sulfide	000	0	0.004	0.470	0.016	3	NA	
Methanol	000	0	0.150	19.000	0.670	3	NA	
Methyl ethyl ketone	000	0	<0.001	0.018	0.001	3	NA	
Naphthalene	000	0	0.017	2.200	0.075	3	NA	

Note: This tank stores rosin, resin products, TOFA ester, resin solution, amine raw materials, and asphalt emulsion products. The product with the highest vapor pressure has been used to calculate VOC emissions. Speciated emissions are based on all products. Maximum lb/hr based on no control. Note: the tank is in multi-service for Oil field Products, the emissions are less than permitted value.

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants



Company Name
MeadWestvaco South Carolina, LLC

Plant location and name (if any)
DeRidder

Date of Submittal
December 2006

Source ID number
4-80

Descriptive name of the equipment served by this stack or vent
T-64, Rosin/Rosin Products Storage Tank, Post Refinery

Approximate location of stack or vent (see instructions on how to determine location of area sources)
Horizontal Coordinate
472700 m E

Stack and Discharge Physical Characteristics
Change yes no

Height of stack above grade (ft)
32.2

Diameter (ft) or stack discharge area (ft²)
13.5 ft

FUEL
a:
b:
c:

Stack gas exit temp (deg F)
N/A

Type of Fuel
N/A

Operating Characteristics
Dec-Feb Mar-May Jun-Aug Sept-Nov

Heat Input (MMBtu/hr)
N/A

Percent of annual throughput of pollutants through the emission point
25 25 25 25

Operating Characteristics
Mar-May Jun-Aug Sept-Nov

Stack gas flow (CFM)
N/A

Operating Characteristics
25 25 25 25

Stack gas velocity (fps)
N/A

Operating Characteristics
25 25 25 25

Date of construction / modification
1981/1994

Normal operating time of this point
hrs/day days/wk wk/yr

Operating rate (Max) or Tank Capacity
33,000 Gallons

Normal Operating Rate
N/A

Air Pollutant Specific Information

Pollutant
Toluene

Control Equipment Code
000 0

Emission Rate
Average (lbs/hr)
<0.001

Maximum (lbs/hr)
<0.001

Annual (tons/yr)
<0.001

Emission Estimation Method
3

Add, Change, or Delete Code
NA

Concentration in gases exiting at stack
NA

Note: This tank stores rosin, rosin products, TOFA ester, resin solution, amine raw materials, and asphalt emulsion products. The product with the highest vapor pressure has been used to calculate VOC emissions. Speciated emissions are based on all products. Maximum lb/hr based on no control. Note: the tank is in multi-service for Oil field products, the emissions are less than permitted value.

Department of Environmental Quality
 Permits Division
 P.O. Box 4313
 Baton Rouge, LA 70821-4313
 (225) 219-3181

LOUISIANA
SINGLE POINT/AREA/VOLUME SOURCE
Emission Inventory Questionnaire (EIQ)
for Air Pollutants



Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder		Approximate location of stack or vent (see instructions on how to determine location of area sources)		Date of Submittal December 2006	
Source ID number 4-92	Descriptive name of the equipment served by this stack or vent T-202, Monomer Storage Tank, Acrylics		Horizontal Coordinate	Vertical Coordinate	Operating rate (Max) or Tank Capacity m E m N	
Stack and Discharge Physical Characteristics Change yes X no	Height of stack above grade (ft) 14	Diameter (ft) or stack discharge area (in2) 10 f1	Stack gas exit temp (deg F) N/A	Stack gas flow (CFM) N/A	Date of construction / modification 1993	Normal operating time of this point N/A
FUEL	a: Type of Fuel N/A	Heat Input (MMBtu/hr)	Operating Characteristics	Percent of annual throughput of pollutants through the emission point	Normal operating time of this point	Normal Operating Rate
	b:		Dec-Feb	Mar-May	hrs/day	
	c:		25	25	25	days/wk
					24	wkly
					7	N/A
					52	

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC (incl. those listed below)	048, 088	95	0.006	4.040	0.027	i	3	NA

Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon).

Note 2: Tank is bottom filled and vapor balanced to the tank truck.

Note 3: Maximum lb/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent. Note: the tank is in multi-service for Oil field Products, the emissions are less than permitted value.

MeadWestvaco South Carolina, LLC

<p>Department of Environmental Quality Permits Division P.O. Box 4313 Baton Rouge, LA 70821-4313 (225) 219-3181</p>		 <p>LOUISIANA SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants</p>																																													
<p>Company Name MeadWestvaco South Carolina, LLC</p>		<p>Plant location and name (if any) DeRidder</p>																																													
<p>Source ID number 5-92</p>		<p>Descriptive name of the equipment served by this stack or vent T-203, Monomer Storage Tank, Acrylics</p>																																													
<p>Stack and Discharge Physical Characteristics Change <u>yes</u> <u>X</u> <u>no</u></p>		<table border="1"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Type of Fuel</th> <th rowspan="2">Heat Input (MMBtu/hr)</th> <th rowspan="2">Operating Characteristics</th> <th colspan="4">Percent of annual throughput of pollutants through the emission point</th> <th rowspan="2">Normal operating time of this point</th> <th rowspan="2">Normal Operating Rate</th> </tr> <tr> <th>Dec-Feb</th> <th>Mar-May</th> <th>Jun-Aug</th> <th>Sept-Nov</th> </tr> </thead> <tbody> <tr> <td>a:</td> <td>N/A</td> <td></td> <td></td> <td>10</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>1983</td> <td>8,230 Gallons</td> </tr> <tr> <td>b:</td> <td></td> <td></td> <td></td> <td>25</td> <td>25</td> <td>25</td> <td>25</td> <td>hrs/day</td> <td>N/A</td> </tr> <tr> <td>c:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>days/wk</td> <td>N/A</td> </tr> </tbody> </table>			Type of Fuel	Heat Input (MMBtu/hr)	Operating Characteristics	Percent of annual throughput of pollutants through the emission point				Normal operating time of this point	Normal Operating Rate	Dec-Feb	Mar-May	Jun-Aug	Sept-Nov	a:	N/A			10	N/A	N/A	N/A	1983	8,230 Gallons	b:				25	25	25	25	hrs/day	N/A	c:								days/wk	N/A
	Type of Fuel	Heat Input (MMBtu/hr)	Operating Characteristics					Percent of annual throughput of pollutants through the emission point						Normal operating time of this point	Normal Operating Rate																																
				Dec-Feb	Mar-May	Jun-Aug	Sept-Nov																																								
a:	N/A			10	N/A	N/A	N/A	1983	8,230 Gallons																																						
b:				25	25	25	25	hrs/day	N/A																																						
c:								days/wk	N/A																																						

FUEL	Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate			Add, Change, or Delete Code	Concentration in gases exiting at stack
				Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)		
Total VOC (incl. those listed below)		048, 088	95	0.005	4.00	0.022	3	NA

Air Pollutant Specific Information

Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon).
 Note 2: Tank is bottom filled and vapor balanced to the tank truck.
 Note 3: Maximum lb/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent. Note: the tank is in multi-service for Solvents (Isopar, diesel...), the emissions are less than permitted value.

MeadWestvaco South Carolina, LLC

Department of Environmental Quality Permits Division P.O. Box 4313 Baton Rouge, LA 70821-4313 (225) 219-3181	LOUISIANA SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants	
Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder	
Source ID number 6-92	Descriptive name of the equipment served by this stack or vent T-204, Monomer Storage Tank, Acrylics	

Stack and Discharge Physical Characteristics	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft ²)		Stack gas exit temp (deg F)	Stack gas flow (CFM)	Stack gas velocity (fps)	Date of construction / modification	Operating rate (Max) or Tank Capacity
		10	ft					
Change <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	14							
FUEL	a: N/A	Type of Fuel	Heat Input (MMBtu/hr)	Operating Characteristics	Percent of annual throughput of pollutants through the emission point	Normal operating time of this point	Normal Operating Rate	Normal Operating Rate
	b:			Dec-Feb	Mar-May	Jun-Aug	Sept-Nov	
	c:			25	25	25	25	
					25	24	7	52

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Efficiency	Emission Rate			Add, Change, or Delete Code	Concentration in gases exiting at stack
			Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)		
Total VOC (incl. those listed below)	048, D88	95	0.004	4.040	0.018	3	NA
Methyl methacrylate	048, D88	95	0.004	4.040	0.018	3	NA

Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon).
Note 2: Tank is bottom filled and vapor balanced to the tank truck.
Note 3: Maximum lb/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent. Note: the tank is in multi-service for Solvents (Isopar, diesel,..).
MeadWestvaco South Carolina, LLC

Department of Environmental Quality
 Permits Division
 P.O. Box 4313
 Baton Rouge, LA 70821-4313
 (225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants



Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder		Date of Submittal December 2006
Source ID number 7-92	Descriptive name of the equipment served by this stack or vent T-205 Styrene/Acrylon Monomer Storage Tank		Approximate location of stack or vent (see instructions on how to determine location of area sources)
Stack and Discharge Physical Characteristics Change _____ yes <input checked="" type="checkbox"/> no	Height of stack above grade (ft) 14	Diameter (ft) or stack discharge area (ft ²) 10 ft	Stack gas exit temp (deg F) N/A
FUEL	Type of Fuel a: N/A b: c:	Operating Characteristics Dec-Feb 25	Stack gas flow (CFM) N/A
		Percent of annual throughput of pollutants through the emission point Mar-May 25	Stack gas velocity (fps) N/A
		Sept-Nov 25	Date of construction / modification 1993
			Operating rate (Max) or tank Capacity 3410200 8,226 Gallons
			Normal operating time of this point hrs/day 24
			Normal Operating Rate wks/yr 52
			N/A

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Efficiency	Emission Rate			Add, Change, or Delete Code	Concentration in gases exiting at stack
			Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)		
Total VOC (incl. those listed below)	048,089	95	0.001	4.000	0.004	3	NA
Styrene	048,089	95	0.001	4.000	0.004	3	NA

Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon). Note: the tank is in multi-service for Oil field Products, the emissions are less than permitted value.

Note 2: Tank is bottom filled and vapor balanced to the tank truck.

Note 3: Maximum lb/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent.

Last Printed on: 7/16/2007 11:58:52 AM

APPENDIX D
Page 139 of 176

MeadWestvaco South Carolina, LLC

Department of Environmental Quality
 Permits Division
 P.O. Box 4313
 Baton Rouge, LA 70821-4313
 (225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants



Company Name MeadyWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder			Date of Submittal December 2006
Source ID number 8-92	Descriptive name of the equipment served by this stack or vent T-206, Monomer Storage Tank, Acrylics			Approximate location of stack or vent (see instructions on how to determine location of area sources)
Stack and Discharge Physical Characteristics Change _____ yes <input checked="" type="checkbox"/> no	Height of stack above grade (ft) 14	Diameter (ft) or stack discharge area (ft ²) 10 ft	Stack gas exit temp (deg F) N/A	Horizontal Coordinate UTM Zone No. 15 Vertical Coordinate Stack gas flow (CFM) N/A
FUEL	Type of Fuel a: N/A b: c:	Heat Input (MMBtu/hr)	Operating Characteristics Dec-Feb 25	Percent of annual throughput of pollutants through the emission point Mar-May 25
			Jun-Aug 25	Sept-Nov 25
				Normal operating time of this point hrs/day 24
				Operating Rate days/wk 7
				wk/yr 52
				N/A

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate			Emission Estimation Method	Add, Change, or Delete Code	Concentration in gasses exiting at stack
			Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)			
Total VOC (incl. those listed below)	048, 088	95	0.005	4.040	0.021	3	NA	

Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon). Note: the tank is in multi-service for Solvents (Isopar, diesel,...), the emissions are less than permitted value.

Note 2: Tank is bottom filled and vapor balanced to the tank truck.

Note 3: Maximum lb/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent.

Last Printed on: 7/16/2007 11:59:47 AM

APPENDIX D
Page 147 of 176

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants



Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder			Date of Submittal December 2006		
Source ID number 7-94	Descriptive name of the equipment served by this stack or vent T-62, Rosin/Rosin Products Storage Tank, Post Refinery			Approximate location of stack or vent (see instructions on how to determine location of area sources)		
Stack and Discharge Physical Characteristics	Height of stack above grade (ft) 34	Diameter (ft) or stack discharge area (ft ²) 13.5 ft	Stack gas exit temp (deg F) N/A	UTM Zone No. 15	Vertical Coordinate Horizontal Coordinate 34 10200 m E m N	Operating rate (Max) / or Tank Capacity 33,000 Gallons
FUEL	a: Type of Fuel N/A	Operating Characteristics	Percent of annual throughput of pollutants through the emission point			Normal operating time of this point Operating Rate N/A
			Dec-Feb	Mar-May	Jun-Aug	
			25	25	25	
b: Heat Input (MMBtu/hr)	c: Heat Input (MMBtu/hr)	d: Heat Input (MMBtu/hr)	e: Heat Input (MMBtu/hr)	f: Heat Input (MMBtu/hr)	g: Heat Input (MMBtu/hr)	

Air Pollutant Specific Information						
Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate		Emission Estimation Method	Add, Change, or Delete Code
		Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)		Concentration in gases exiting at stack
Sulfur dioxide (SO ₂)	087.089	0	0.001	0.160	0.003	3 NA
Total Reduced Sulfur (TRS)	087.089	0	0.005	1.000	0.021	3 NA
Total VOC (incl. those listed below)	087.089	0	0.560	120.000	2.400	3 NA
Acetaldehyde	087.089	0	<0.001	0.003	<0.001	3 NA
Butanol, n-	087.089	0	<0.001	0.028	0.001	3 NA
Carbonyl sulfide	087.089	0	0.001	0.210	0.004	3 NA
Ethyl benzene	087.089	0	<0.001	<0.001	<0.001	3 NA
Formaldehyde	087.089	0	<0.001	<0.001	<0.001	3 NA
Hexane, n-	087.089	0	<0.001	<0.001	<0.001	3 NA
Hydrogen sulfide	087.089	0	0.001	0.260	0.005	3 NA
Methanol	087.089	0	0.017	3.700	0.074	3 NA
Methyl ethyl ketone	087.089	0	<0.001	0.045	0.001	3 NA
Naphthalene	087.089	0	0.025	5.400	0.110	3 NA

Note: This tank stores rosin/rosin products, intermediates, ink oil, and asphalt emulsion products. The product with the highest vapor pressure has been used to calculate VOC emissions. Speciated emissions are based on all products. Note: the tank is in multi-service for Oil field Products, the emissions are less than permitted value.

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants



Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder	Date of Submittal December 2006					
Source ID number 7-94	Descriptive name of the equipment served by this stack or vent T-62, Rosin/Rosin Products Storage Tank, Post Refinery	Approximate location of stack or vent (see instructions on how to determine location of area sources) Horizontal Coordinate 472700 m E Vertical Coordinate 3410200 m N					
Stack and Discharge Physical Characteristics Change _____ yes <input checked="" type="checkbox"/> no	Height of stack above grade (ft) 34	Diameter (ft) or stack discharge area (ft ²) 13.5 ft	Stack gas exit temp (deg F) N/A	Stack gas flow (CFM) N/A	Stack gas velocity (fps) N/A	Date of construction / modification 1983	Operating rate (Max) or Tank Capacity 33,000 Gallons
FUEL	a: Type of Fuel N/A	Operating Characteristics		Percent of annual throughput of pollutants through the emission point		Normal operating time of this point hrs/day 24	Normal Operating Rate wk/yr 52
	b:	Dec-Feb 25	Mar-May 25	Jun-Aug 25	Sep-Nov 25		
	c:						

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate			Add, Change, or Delete Code	Concentration in gases exiting at stack
			Average (lbs/hr)	Maximum (lbs/hr)	Annual (tons/yr)		
Toluene	087, 089	0	<0.001	<0.001	<0.001	3	NA

Note: This tank stores rosin/rosin products, intermediates, ink oil, and asphalt emulsion products. The product with the highest vapor pressure has been used to calculate VOC emissions. Speciated emissions are based on all products. Note: the tank is in multi-service for Oil field Products, the emissions are less than permitted value.

Department of Environmental Quality
Permits Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants



Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder				Date of Submittal December 2006
Source ID number 8-92	Descriptive name of the equipment served by this stack or vent T-206, Monomer Storage Tank, Acrylics		Approximate location of stack or vent (see instructions on how to determine location of area sources)		Horizontal Coordinate 4 72700 m E
Stack and Discharge Physical Characteristics	Height of stack above grade (ft) 14	Diameter (ft) or stack discharge area (ft ²) 10 ft	Stack gas exit temp (deg F) N/A	Stack gas flow (CFM) N/A	Vertical Coordinate 3410200 m N
Change <u>yes</u> <u>X</u> <u>no</u>			Percent of annual throughput of pollutants through the emission point	Stack gas velocity (fps) N/A	Date of construction / modification 1993
FUEL	Type of Fuel a: N/A b: c:	Heat Input (MMBtu/hr)	Operating Characteristics	Operating Rate Normal Operating Rate 8,226 Gallons	Operating rate (Max) or Tank Capacity
			Dec-Feb 25	Mar-May 25	Jun-Aug 25
				Sept-Nov 25	days/wk 24
					wk/yr 52

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate		Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC (incl. those listed below)	048,088	85	Average (lbs/hr)	Maximum (lbs/hr)	Annual (ton/yr)	3	NA
			0.005	4.040	0.021		

Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon). Note: the tank is in multi-iservice for Solvents (Isopar, diesel...), the emissions are less than permitted value.

Note 2: Tank is bottom filled and vapor balanced to the tank truck.

Note 3: Maximum lb/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent.

Department of Environmental Quality
Permits Division
P.O. Box 43113
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT/AREA/VOLUME SOURCE

Emission Inventory Questionnaire (EIQ)

for Air Pollutants



Company Name MeadWestvaco South Carolina, LLC	Plant location and name (if any) DeRidder			Date of Submittal December 2006	
Source ID number 9-92	Descriptive name of the equipment served by this stack or vent T-209, Monomer Storage Tank, Acrylics			Approximate location of stack or vent (see instructions on how to determine location of area sources)	
Stack and Discharge Physical Characteristics	Height of stack above grade (ft) 14	Diameter (ft) or stack discharge area (ft ²) 10 ft	Stack gas exit temp (deg F) N/A	Horizontal Coordinate UTM Zone No. 15 Vertical Coordinate Stack gas velocity (fps) (ft/s) N/A	
Change <input checked="" type="checkbox"/> yes <input type="checkbox"/> no	Type of Fuel a: N/A	Operating Characteristics		Stack gas flow (CFM) N/A	
FUEL	b: c:	Percent of annual throughput of pollutants through the emission point Dec-Feb 25	Mar-May 25	Stack gas flow (CFM) N/A	
		Percent of annual throughput of pollutants through the emission point Jun-Aug 25	Sept-Nov 25	Stack gas flow (CFM) N/A	
		Percent of annual throughput of pollutants through the emission point Oct-Dec 25	Normal operating time of this point hrs/day 24	Normal operating time of this point days/wk 7	
		Percent of annual throughput of pollutants through the emission point Jan-Mar 25	Normal operating time of this point wk/yr 52	Normal operating time of this point N/A	
Air Pollutant Specific Information					
Pollutant Total VOC (incl. those listed below)	Control Equipment Code 048, 089	Control Equipment Efficiency 95	Average (lbs/hr) 0.005	Maximum (lbs/hr) 4.00	Emission Rate Annual (tons/yr) 0.023
					Emission Estimation Method 3
					Add, Change, or Delete Code NA
					Concentration in gases exiting at stack

Note 1: Tank equipped with air, low oxygen or nitrogen blanket, conservation vent which vents to a control device (activated carbon).

Note 2: Tank is bottom filled and vapor balanced to the tank truck.

Note 3: Maximum lb/hr based on maximum fill rate and 80% control because tank has bottom fill and a conservation pressure vent. Note: the tank is in multi-service for Oil field Products, the emissions are less than permitted value.

MeadWestvaco South Carolina, LLC

Attachment 1

Specialty Process Area

MeadWestvaco plans to discontinue production of acrylic-styrenic based products within the Acrylics Plant. Upon its disposition, MeadWestvaco intends to convert the exiting Acrylic Plant manufacturing equipment to the production of tall oil based derivatives, e.g. oil field products, etc.

Attachment 2

In addition to the minor modification request, as part of this renewal application, MeadWestvaco is requesting several small changes. They are as follows:

- Increase the Startup/Shutdown emissions (Identified as 1-03/2-03 SU/SD in Appendix A of the current permit) to allow for additional downtime from the Hotwell (Source 5-95) and additional increase the number of downtime events.
- Increase the 200 hp Hydroblaster Insignificant Activity to up to 500 hp Hydroblaster;
- Change the service of Source 12-92 (Tank T-215) to include gasoline (temporary emergency use), and solvents: (diesel, Isopar, etc.). The VOC emissions will be less than currently permitted value;
- Change the service of Source 5-92, 6-92, 8-92, (Tank T-203, T-204, T-206) to include solvents: (diesel, Isopar, etc.). The VOC emissions will be less than currently permitted value;
- Change the service of Sources 3-80, 4-80, 3-92, 4-92, 7-92, 9-92, 10-92, 11-92, and 7-94 (Tank T-65, T-64, T-201, T-202, T-205, T-209, T-213, Tank T-214, and T-62) to include Fuel Oil Products (F.O.P.). The VOC emissions will be less than currently permitted value;
- Change the service of Source 10-84 (Tank ST-7) to include Linseed Oil. This new product has no VOC emissions; and phase II, will be to change the service of the tank to toluene and route the emissions to the APCS and displace some of the emissions from ST-21 to ST-7, the emissions will not increase from currently permitted .
- Change Source 27-04 (Post Refinery Area Heat Transfer Fluid Storage Tank) to an Insignificant Activity. The emissions from this source are less than 0.01 tpy. The vapor pressure of the material meets the Insignificant Activity A3 (<0.5 psia) threshold.
- Add a package boiler to the Steam Generation boilers, Emission Point No. 1-75. This group source is capped through Condition No. 1 of the Part 70 Specific Conditions in Appendix A. The capped emissions will not change from previous permitted values.